ABBREVIATIONS AND ACRONYMS

AAQS Ambient Air Quality Standards

ABAG Association of Bay Area Governments

ACDEH Alameda County Department of Environmental Health

ACE Altamont Commuter Express

ACGIH American Conference of Governmental Industrial Hygienists

ACHCS Alameda County Health Care Services

ACHP Advisory Council on Historic Preservation

ACL Ambient concentration limit
ACM Asbestos containing materials

AD Associate Director
ADT Average daily traffic
AEA Atomic Energy Act

AET Applied Energy Technologies

AIHA American Industrial Hygiene Association

ALARA As low as reasonably achievable

AMP Advanced Materials Program

ANSI American National Standards Institute
APDS Autonomous Pathogen Detection System

APE Area of potential effect

AQCR Air Quality Control Region

ARES Amateur Radio Emergency Services

ARF Airborne release fraction

ARM Assembly, resupply, and maintenance

ARO Assurance Review Office

ARPA Archaeological Resources Protection Act

ASCI Advanced Simulation and Computing Initiative

ASD Atmospheric Sciences Division

ATA Advanced Test Accelerator

ATSDR Agency for Toxic Substances and Disease Registry

AVLIS Advanced Vapor Laser Isotope Separation

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AWQC Ambient water quality criteria

BAAQMD Bay Area Air Quality Management District

BACT Best Available Control Technology

BART Bay Area Rapid Transit

BASIS Biological Aerosol Sentry and Information System
BBRP Biology and Biotechnology Research Program

BCP Business commercial park

BDRP Biological Defense Research Program

BEIR Biological effects of ionization

BMP Best management practice

BSL BioSafety Level CAA Clean Air Act

CAAQS California Ambient Air Quality Standards

CAIRS Computerized Accident/Incident Reporting System

California EPA California Environmental Protection Agency

CALSTAR California Shock Trauma Air Rescue

CAMS Center for Accelerator Mass Spectrometry

CAR Computing Applications and Research

CARB California Air Resources Board

CBD Chronic beryllium disease

CBNP Chemical and Biological National Security

CCAA California Clean Air Act
CCB Change Control Board

CCF Central Characterization Facility
CCP Central Characterization Project
CCR California Code of Regulations

CD Critical decision

CDC Centers for Disease Control

CDFG California Department of Fish and Game

CEDD California Employment Development Department

CEDE Committed effective dose equivalent

CEPRC Chemical Emergency Planning and Response Commission

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CEQ Council on Environmental Quality

CEQA California Environmental Quality Act of 1970

CERCLA Comprehensive Environmental Response, Compensation, and Liability Act

CFF Contained Firing Facility

CFR Code of Federal Regulations

CHEW Chemical Exchange Warehouse

CHP California Highway Patrol

CMGRAMS or

CMG

Controlled materials group

CMS Chemistry and Materials Science

CNDDB California Natural Diversity Data Base

CNEL Community noise equivalent level

CNP Computer numerical control

CNPS California Native Plant Society

CRADA Cooperative research and development agreements

CRD Catalytic reductive dehalogenation

CSO Council on Strategic Operations

CSU Container storage unit

CT California toxic

CVRWQCB Central Valley Regional Water Quality Control Board

CWA Clean Water Act

CWG Community Work Group

CWSC California Water Service Company

CY Calendar year

D&D Decontamination and decommissioning

DARHT Dual Axis Radiographic Hydrodynamic Test

dB Decibel

dB(A) A-weighted decibel

DC Direct current

DDSO Deputy Director for Strategic Operations

DEAR Department of Energy Acquisition Regulation

DHS Department of Health Services

DLM Designated level methodology

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DNA Deoxyribonucleic acid

DNFSB Defense Nuclear Facility Safety Board

DNT Defense and Nuclear Technologies

DoD United States Department of Defense

DOE United States Department of Energy

DOF California Department of Finance

DOR Direct oxygen reduction

DOT United States Department of Transportation

DP Office of Defense Programs

DR Damage ratio

DRB Drainage Retention Basin

DTSC Department of Toxic Substances Control

DWTF Decontamination and Waste Treatment Facility

EA Environmental assessment

EBIT Electron beam ion trap

ECAP East (Alameda) County Area Plan

ECC Emergency communications center

EDD California Employment Development Department

EDE Effective dose equivalent

EDO Environmental Duty Officer

EDS Engineering Demonstration System

EED Energy and Environment Directorate

EIR Environmental impact report

EIS Environmental impact statement

EMPC Energetic Material Processing Center

EMRL Environmental Monitoring Radiation Laboratory

EMS Environmental Management System

EO Executive Order

EOC Emergency Operations Center

EPA United States Environmental Protection Agency

EPCRA Emergency Planning and Community Right-to-Know Act of 1986

EPD Environmental Protection Department

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EPL Effluent pollutant limit

ERD Environmental Restoration Division

ERPG Emergency response planning guideline

ES&H Environment, Safety, and Health

ES&H WG ES&H Working Group

EST Environmental support team

EUV Extreme ultraviolet

EUVL Extreme ultraviolet lithography

EWSF Explosives Waste Storage Facility

EWTF Explosives Waste Treatment Facility

FAA Federal Aviation Administration

FBI Federal Bureau of Investigation

FEMA Federal Emergency Management Agency

FESSP Fission Energy and Systems Safety Program

FFA Federal Facility Agreement

FFCA Federal Facilities Compliance Act

FHC Fuel hydrocarbon

FIRP Facility Infrastructure Recapitalization Project

FONSI Finding of no significant impact

FPOC Facility point of contact

FR Federal Register

FR/O Federal Reserve/Open Space

Freon 11 Trichlorofluoromethane

Freon 113 Trichlorotrifluoroethane

FSP Facility safety plan FTE Full time equivalent

FY Fiscal year

GC Gas chromatograph

GDMS Glow discharge mass spectrometry

GET Geosciences and Environmental Technology

GGS Geophysics and Global Security

GIS Geographic information system

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GPS Global positioning system
GRR Guidance request response
GSA General Services Area
GWP Groundwater Project

GWPMP Groundwater Project Management Program

GWTF Groundwater treatment facility
GWTS Groundwater treatment system
HAC Hazard assessment and control

HAP Hazardous air pollutants

HAZMAT Hazardous material

HCAL Hazards Control Department's Analytical Laboratory

HCCI Homogeneous charge compression ignition

HCD Hazards Control Department

HE High explosives

HEA Health and Ecological Assessment
HEAF High Explosives Application Facility
HEDC High Explosives Development Center

HEDP High-energy-density physics

HEPA High-efficiency particulate air (filter)

HEU Highly enriched uranium

HHI Health Hazard Index

HIV Human immunodeficiency virus
HMX cyclotetramethylenetetranitramine

HOV High occupancy vehicle

HQ Hazard quotient
HR Human Resources

HRA Health risk assessment

HSD Health Services Department

HSWA Hazardous and Solid Waste Amendments
HVAC Heating, ventilation, and air conditioning

HW Hazardous waste

HWCA Hazardous Waste Control Act

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HWM Hazardous Waste Management Division ICC Integrated computing and communications

ICF Inertial confinement fusion ICP Inductively coupled plasma

ICRP International Commission on Radiological Protection

IDLH Immediately dangerous to life or health

INEEL Idaho National Engineering and Environmental Laboratory

INL Idaho National Laboratory

IQR Interquartile range

IS/EA Initial study/environmental assessment
ISCT Industrial Source Complex Short Team

ISM Integrated safety management

ISMS Integrated Safety Management System

ISO Independent system operator

ISRF International Security Research Facility

IT Information technology

ITP Integrated Technology Project

IWS Integration work sheet

IWS/SP Integrated work sheet/safety plan

JCATS Joint Conflict and Tactical Simulation

L/RWD Lost/restricted work day

LANL Los Alamos National Laboratory

LBNL Lawrence Berkeley National Laboratory

LCF Latent cancer fatalities

LCW Low pressure cooling water

LDRD Laboratory Directed Research and Development

LEDO Laboratory Emergency Duty Officer

LEPC Local Emergency Planning Committee

LINAC Linear accelerator

LLNL Lawrence Livermore National Laboratory

LLW Low-level waste

LOEC Lowest observed effect concentration

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LOS Limit of sensitivity
LPF Leak path factor

LPT Lymphocyte proliferation test
LS&T Laser Science and Technology

LSA Low specific activity
LSO Laser Safety Officer

LSO Livermore Safety Officer

LTAB Laser and Target Area Building

LWC Low work day cases

LWD Lost work days

LWPA Liquid-waste processing area

LWRP Livermore Water Reclamation Plant

MAPEP Mixed Analyte Performance Evaluation Program

MAR Material at Risk

MCL Maximum contaminant level

MDC Minimum detectable concentration

MDD Materials Distribution Division
MEI Maximally exposed individual

MLLW Mixed low-level waste

MM Modified Mercalli

MMS Materials Management Section
MOU Memorandum of understanding

MPL Maximum permitted level

MRP Monitoring and Reporting Program

MS Mass spectrometer

MSDS Material safety data sheet

MSE Molten-salt extraction

MSR Materials and Storage Retrieval

MTBE Methyl tertiary-butyl ether

MTC Metropolitan Transit Commission

MWMP Medical Waste Management Plant

NAAQS National Ambient Air Quality Standards

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NAI Non-proliferation, arms control, and international security

NARAC National Atmospheric Release Advisory Center

NC Numerical control

NCDC National Climatic Data Center

NCR Nonconformance report

NCRP National Council on Radiation Protection and Measurements

NEPA National Environmental Policy Act

NESHAP National Emissions Standards for Hazardous Air Pollutants

NEUMA Neutron multiplying assembly

NHPA National Historic Preservation Act

NIF National Ignition Facility

NIOSH National Institute of Occupational Safety and Health

NMTP Nuclear Materials Technology Program
NNSA National Nuclear Security Administration

NOAA National Oceanic and Atmospheric Administration

NOD Notice of deficiency

NOEC No observed effect concentration

NOI Notice of intent

NOV Notice of violation

NPDES National Pollutant Discharge Elimination System

NPL National Priorities List

NPOC Non-precursor organic compounds
NRC Nuclear Regulatory Commission
NRDC Natural Resources Defense Council
NRHP National Register of Historic Places

Nationwide permit

NTS Nevada Test Site

NWP

OAASIS Occupational Accident/Injury/Illness Analysis Support and Information

System

OAB Optics Assembly Building
OBT Organically bound tritium

OCRWM Office of Civilian Radioactive Waste Management

ODS Ozone-depleting substance

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OES Office of Emergency Services

ORAD Operations and Regulatory Affairs Division

OSC Operation Support Center

OSHA Occupational Safety and Health Administration

OSP Open space and parks

OU Operable unit

PA Programmatic agreement

PAAA Price-Anderson Amendments Act

PAG Protective Action Guide

PAM Preamplifier module

PAT Physics and Advanced Technologies

PC Personal computer

PCB Polychlorinated biphenyl

PCE Perchloroethylene (or perchloroethene tetrachloroethene)

PCU Power conditioning unit

PDD Presidential Decision Directive

PEIS Programmatic Environmental Impact Statement

PEL Permit exposure limit

PETN Pentaerythritoltetranitrate
PG&E Pacific Gas and Electric
PHA Public health assessment
pHMS pH Monitoring Station

PL Public Law

PM Performance measurement

PM₁₀ Particulate matter less than 10 microns in diameter

PMCL Primary maximum contaminant level

POC Precursor organic compounds
POTW Publicly owned treatment works
PPE Personal protective equipment

PPOA Pollution prevention opportunity assessment

PPVS Plant Performance Verification Series

PQL Practical quantitation limit

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PSA Project-specific analysis

PSHA Probabilistic seismic hazard assessment

PTU Portable treatment unit

PVC Polyvinyl chloride
QA Quality assurance
QC Quality control

R&D Research and Development

RAIP Remedial Action Implementation Plan

RCRA Resource Conservation and Recovery Act of 1976

RD Remedial design

RDWP Remedial Design Work Plan

RDX Hexahydro-1,3,5-trinitro-1,3,5-triazine

rem Radiation equivalent-man

RF Radio frequency
RF Respirable fraction

RG Risk group

RGD Radiation-generating device

RHWM Radioactive and Hazardous Waste Management

RI/FS Remedial investigation/feasibility study

RL Reporting limit

RMA Radioactive Materials Area

RMMA Radioactive Materials Management Area

ROD Record of Decision
ROI Region of influence

ROW Right of way

RRP Risk reduction program
RTW Return to Work Program

RWPA Reactive waste processing area

RWQCB Regional Water Quality Control Board

SAA Streambed alteration agreement

SAAQS State Ambient Air Quality Standards
SAER Site Annual Environmental Report

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SAM Scanning auger microprobe

SAR Safety analysis report

SARA Superfund Amendment and Reauthorization Act of 1986

SAT Space Action Team

SBSSMP Science Based Stockpile Stewardship and Management Program

SCIF Sensitive Compartmented Information Facility

SDF Sewer Diversion Facility
SDWA Safe Drinking Water Act

SEIS Supplemental Environmental Impact Statement

SEP Safety and Environmental Protection

SERC State Emergency Response Commission

SFBR San Francisco Bay Region

SFBRWQCB San Francisco Bay Regional Water Quality Control Board

SHARP Super High Altitude Research Project

SHPO State Historic Preservation Officer

SIC Standard industrial code
SIS Special isotope separator

SJEHD San Joaquin Environmental Health Department

SJVUAPCD San Joaquin Valley Unified Air Pollution Control District

SMC Senior Management Council

SMCL Secondary maximum contaminant level

SMS Sewer Monitoring Station

SNL/CA Sandia National Laboratories/California

SNM Special nuclear material

SOP Standard operating procedures

SOV Summary of violations

SPCC Spill Prevention Control and Countermeasure

SRS Savannah River Site
SRU Size reduction unit

SSM PEIS Stockpile Stewardship and Management PEIS

SSP Stockpile Stewardship Program

SST Safe secure transport

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SST/SGT Safe secure trailers/safeguards transport

STP Site Treatment Plant
STU Solar treatment unit
SVE Soil vapor extraction

SWEIS Site-wide Environmental Impact Statement

SWMU Solid-waste management unit SWPA Solid waste processing area

SWPPP Stormwater Pollution Prevention Plan SWRCB State Water Resources Control Board

TATB Triaminotrinitrobenzene

TBACT Toxic best available control technology

TBD To be determined

TBOS Tetrabutyl orthosilicate

TCA trichloroethane

TCE Trichloroethene (or trichloroethylene)
TCLP Toxicity characteristic leaching procedure

TCP Traditional cultural properties

TDS Total dissolved solids

TEEL Temporary emergency exposure limit

TF Treatment facility
TIG Tungsten inert gas

TKEBS Tetrakis (2-ethylbutyl) silane
TLD Thermoluminescent dosimeter

TLV Threshold limit value

TNT Trinitrotoluene

TOC Tactical operations center

TOX Total organic halides

TRAGIS Transportation Routing Analysis Geographic Information System

TRC Total reportable cases
TRI Toxic release inventory

TRU Transuranic waste

TRUPACT-II Transuranic Package Transporter-II

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TSCA Toxic Substances Control Act

TSDF Treatment, Storage, and Disposal Facility

TSF Terascale Simulation Facility

TSMP Transportation Systems Management Program

TSS Total suspended solids
TTO Total toxic organics

TWA Time-weighted average

TWMS Total Waste Management System

UBC Uniform Building Code
UC University of California

USACE United States Army Corps of Engineers

USC United States Code

USDA United States Department of Agriculture
USFWS United States Fish and Wildlife Service

USGS United States Geological Survey

UST Underground storage tank

UV-visible-NIR Ultraviolet-visible-near-infrared

VOC Volatile organic compound

VTF Vapor treatment facility
WAA Waste accumulation area

WAPA Western Area Power Administration

WDR Waste discharge requirements

WFO Work for others

WIPP Waste Isolation Pilot Plant

WMD Weapons of mass destruction

WSS Work Smart Standards

XPS X-ray photoelectron spectrometer

Zone 7 Alameda County Flood Control and Conservation District, Zone 7

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UNIT OF MEASURE AND ABBREVIATIONS

acre	ac
billion gallons per year	BGY
centimeters	cm
cubic feet	ft^3
cubic feet per second	ft^3/s
cubic meters	m^3
cubic yards	yd^3
Curie	Ci
decibel	dB
degrees Celsius	$^{\mathrm{o}}\mathrm{C}$
degrees Fahrenheit	°F
feet	ft
gallon	gal
gallons per day	gpd
gram	g
grams per second	g/sec
gravity	g
hectare	ha
Hertz	Hz
hour	hr
kelvin	K
kilogram	kg
kilojoule	kJ
kilometer	km
kilometer per hour	km/hr
kilovolt	kV
kilovoltampere	kVA
kilowatt	kW
kilowatt hour	kWh

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liter L

megajoule MJ

megavolt-ampere MVA

megawatt MW

megawatt hour MWh

megawatt-electric MWe

megawatt-thermal MWt

meter m

meters per second m/sec

microcurie µCi

microcuries per gram μCi/g

microgram µg

micrograms per cubic meter $\mu g/m^3$

 $micrograms\ per\ kilogram\qquad \qquad \mu g/kg$

micrograms per liter $\mu g/L$

micron or micrometer μm

microohms per centimeter μohms/cm

micropascal mPa

mile mi

miles per hour mph

millicurie mCi

millicurie per gram mCi/g

millicurie per millimeter mCi/ml

milligram mg

milligram per liter mg/L

milliliter ml

millimeters of mercury mmHg

million M

million electron volts MeV

million gallons per day MGD

million gallons per year MGY

millirem mrem

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millirem per year	mrem/yr
nanocurie	nCi
nanocuries per gram	nCi/g
part per billion	ppb
part per billion by volume	ppbv
part per million	ppm
particulate matter of aerodynamic diameter less than 10 micrometers	PM_{10}
particulate matter of aerodynamic diameter less than 25 micrometers	PM ₂₅
pascal	Pa
picocurie	pCi
picocuries per gram	pCi/g
picocuries per liter	pCi/L
pound	lb
pounds mass	lbm
pounds per square inch	psi
pounds per year	lb/yr
quart	qt
Roentgen equivalent, man	rem ^a
second	sec
square feet	ft^2
square kilometers	km ²
square meters	m^2

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CONVERSION CHART

TO CONVER	Γ FROM U.S. CUS METRIC	TOMARY INTO	TO CONVE	CRT FROM METE CUSTOMARY	RIC INTO U.S.
If you know	Multiply by	To get	If you know	Multiply by	To get
		Lei	ngth		
inches	2.540	centimeters	centimeters	0.3937	inches
feet	30.48	centimeters	centimeters	0.03281	feet
feet	0.3048	meters	meters	3.281	feet
yards	0.9144	meters	meters	1.094	yards
miles	1.609	kilometers	kilometers	0.6214	miles
		A	rea		
square inches	6.452	square centimeters	square centimeters	0.1550	square inches
square feet	0.09290	square meters	square meters	10.76	square feet
square yards	0.8361	square meters	square meters	1.196	square yards
acres	0.4047	hectares	hectares	2.471	acres
square miles	2.590	square kilometers	square kilometers	0.3861	square miles
		Vol	ume		
fluid ounces	29.57	milliliters	milliliters	0.03381	fluid ounces
gallons	3.785	liters	liters	0.2642	gallons
cubic feet	0.02832	cubic meters	cubic meters	35.31	cubic feet
cubic yards	0.7646	cubic meters	cubic meters	1.308	cubic yards
		We	eight		
ounces	28.35	grams	grams	0.03527	ounces
pounds	0.4536	kilograms	kilograms	2.205	pounds
short tons	0.9072	metric tons	metric tons	1.102	short tons
		Temp	erature		
Fahrenheit (°F)	subtract 32, then multiply by 5/9	Celsius (°C)	Celsius (°C)	multiply by 9/5, then add 32	Fahrenheit (°F)
Kelvin (K)	subtract 273.15	Celsius (°C)	Celsius (°C)	add 273.15	Kelvin (K)

Note: 1 sievert = 100 rems

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